ORDER NO. SD82122358C8

Service Manual

Honeycomb Disk Speaker System

SB-X500 (K)

[E],[EG],[EF],[EH],
[Ei],[EB],[EK],[XA]

* The black type model is indicated by (K) in the Service Manual.

Areas

* [E] is available in Scandinavia and Switzerland.
* [EG] is available in F.R. Germany.
* [EF] is available in France.
* [EH] is available in Holland.
* [Ei] is available in Italy.
* [EB] is available in Belgium.
* [EK] is available in United Kingdom.
* [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.

Specifications

(Specifications are subject to change without notice for further improvement.)
Weight and dimensions shown are approximate.

Type:	3 way 3 speaker bass-reflex system
Speakers:	Woofer: 25 cm, Honeycomb Disk Midrange: 8 cm, Honeycomb Disc Tweeter: 2.8 cm, Honeycomb Disc
Impedance:	8 ohms
Input Power:	130 W, Music 65 W, DIN
Output Sound Pressure Level:	90 dB/W (1.0 m)
Crossover Frequency:	1,500 Hz, 4,000 Hz
Frequency Range:	33 Hz ~ 33 kHz (−10 dB) 40 Hz ~ 30 kHz (−10 dB)
Dimensions:	35.0(W) x 60.6(H) x 32.7(D) cm
Weight:	14.0 kg

TECHNISCHE DATEN

(Spezifikationen können infolge von Verbesserungen ohne Ankindigung geändert werden.)

Typ:	3-Weg-System mit 3 Baßreflex-Lautsprechern
Lautsprecher:	Tieftonlautsprecher: 25 cm, Wabenscheibe Mitteltonlautsprecher: 8 cm, Wabenscheibe Hochtonlautsprecher: 2,8 cm, Wabenscheibe
Impedanz:	8 ohm
Belastbarkeit:	130 Watt Musik 65 Watt DIN
Abgegebener Schalldruckpegel:	90 dB/W (in 1,0 m Abstand)
Überschneidung-frequenz:	1.500 Hz, 4.000 Hz
Frequenzbereich:	33 Hz ~ 33 kHz (−16 dB) 40 Hz ~ 30 kHz (−10 dB)
Abmessungen:	35,0(B) x 60,6(H) x 32,7(T) cm
Gewicht:	14,0 kg

CARACTERISTIQUES

(Sujet à changement sans préaris.)

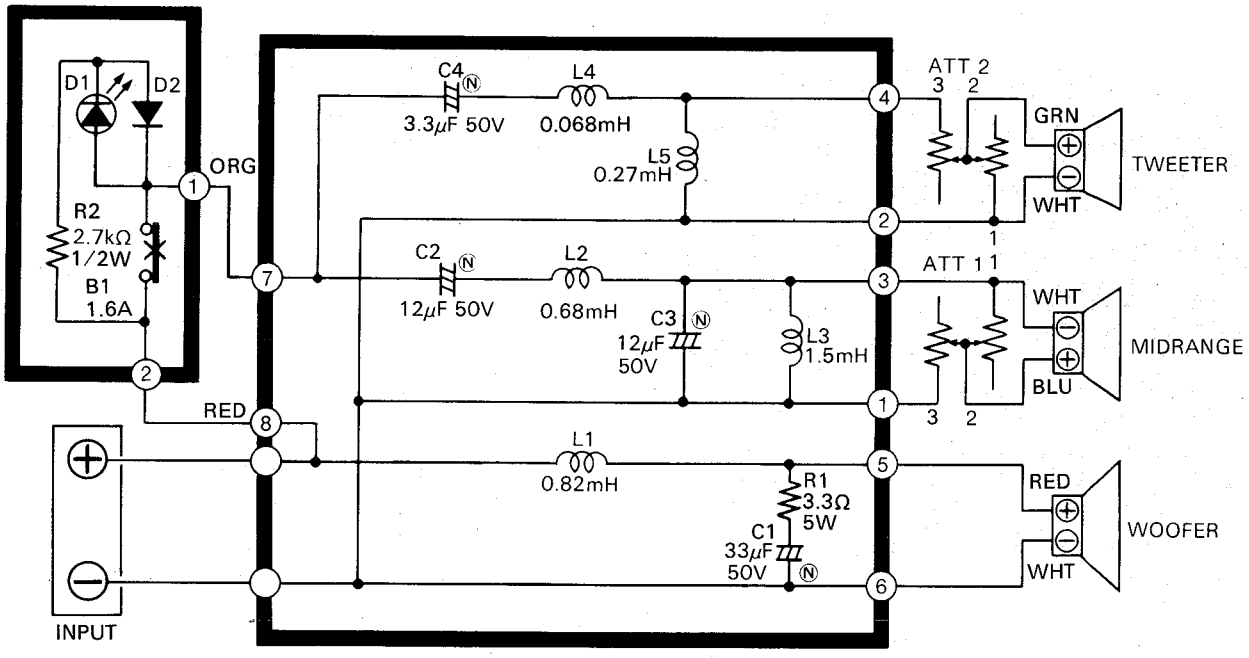
Type:	3 voies, 3 haut-parleurs, bass-reflex
Haut-parleurs:	graves: 25 cm, disque alvéolé moyennes: 8 cm, disque alvéolé aigus: 2,8 cm, disque alvéolé
Impédance:	8 ohms
Puissance d'entrée:	130 watts, musique 65 watts, DIN
Niveau de pression sonore de sortie:	90 dB/W (1,0 m)
Fréquence de commutation:	1.500 Hz, 4.000 Hz
Gamme de fréquences:	33 Hz ~ 33 kHz (−16 dB) 40 Hz ~ 30 kHz (−10 dB)
Dimensions:	35,0(l) x 60,6(h) x 32,7(p) cm
Poids:	14,0 kg

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

■ SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)



Ⓝ: Non Polar Capacitor

■ SERVICING METHOD

● How to remove the attenuator

1. Prepare a strong thin thread of about 30 cm.
2. Push the thread in between the panel and the knob by use of an eyeleteer or pincette. (Fig. 1-A)
3. Let the thread be caught by the knob, then pull the thread to remove the knob. (Fig. 1-B)
3. After removing the washer and nut, put your hand into the opening from which the midrange speaker was removed, and then remove the attenuator volume backward.

● How to remove the breaker

1. Remove the attenuator volume. (Refer to "How to remove the attanuator")
2. Remove the setscrews (Fig. 2: ❶- ❹) which secure the attenuator panel.
3. Remove the breaker P.C.B. from the attenuator panel, and unsolder the terminals to remove the breaker.

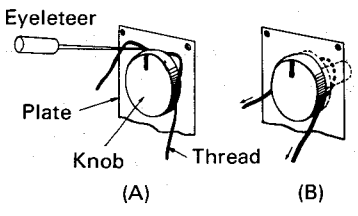


Fig. 1

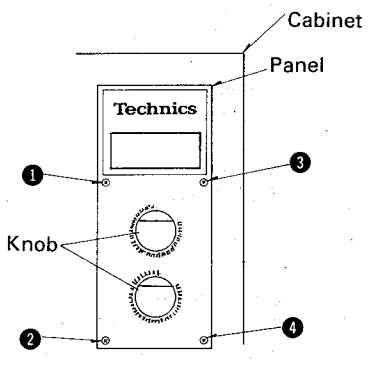
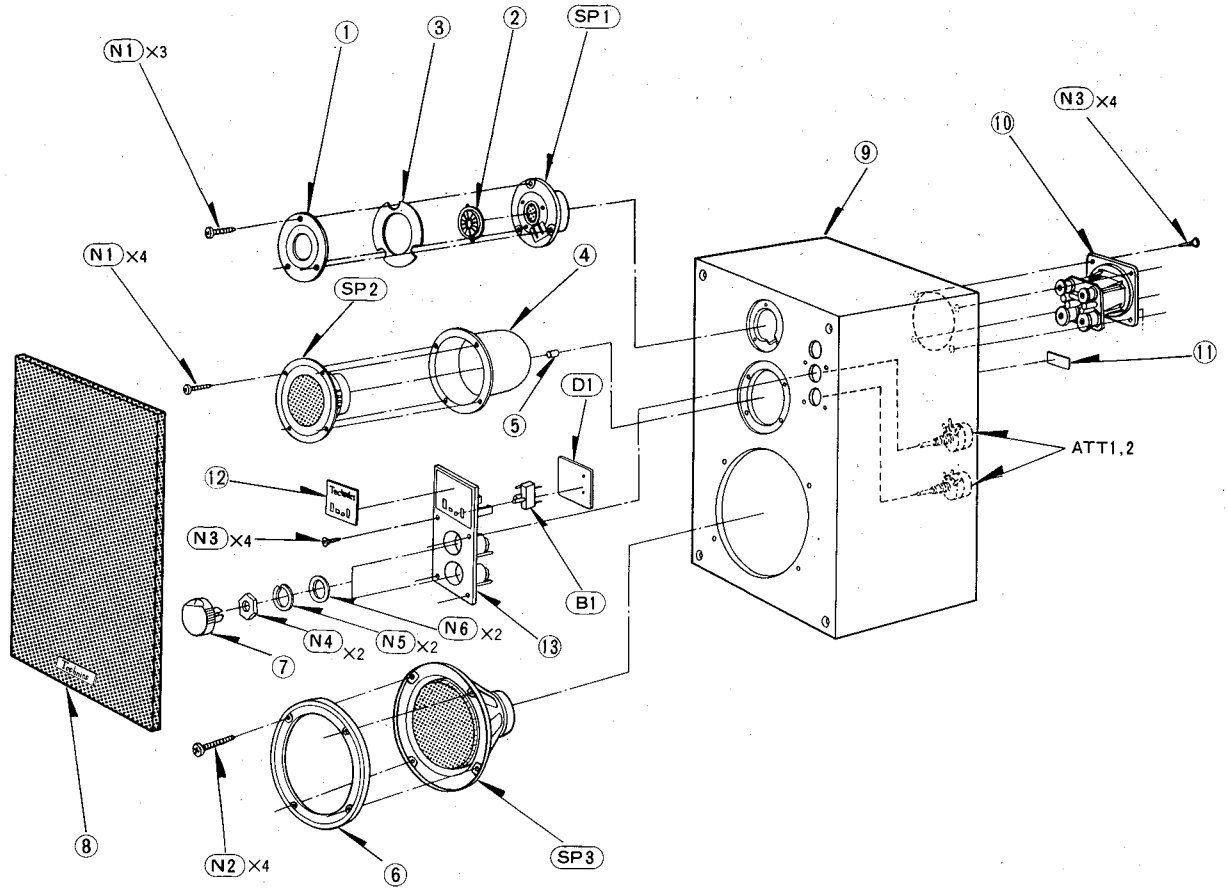


Fig. 2

■ EXPLODED VIEW



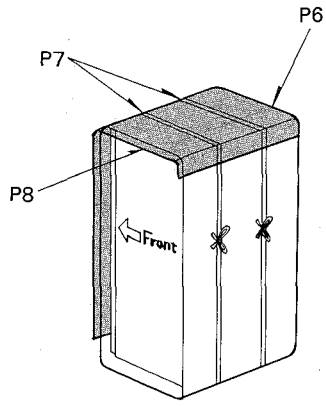
■ REPLACEMENT PARTS LIST

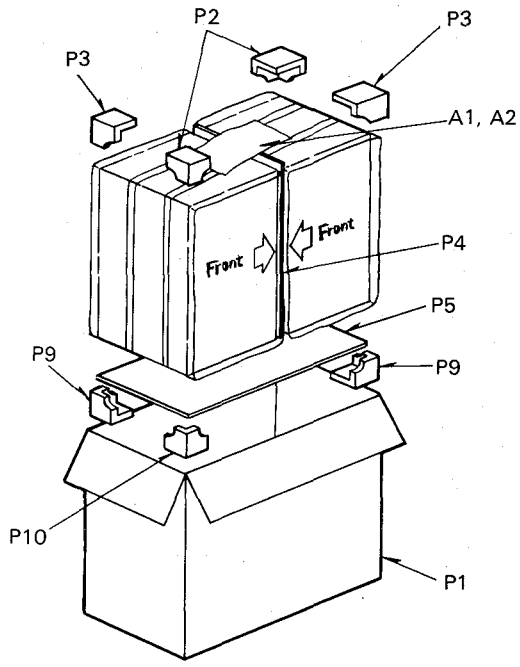
Notes: 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. The parenthesized numbers in columns of description stand for the quantity per set.
3. The "S" mark is service standard parts and may differ from production parts.

Ref. No.		Part No.	Part Name & Description	
SPEAKERS				
SP1		SASS3PH01-T	Tweeter	(1)
SP2		SASS8PM01-T	Midrange	(1)
SP3		SASS25PL07-T	Woofer	(1)
COILS				
L1		SLCSA821J	0.82 mH	(1)
L2		SLCSA681J	0.68 mH	(1)
L3		SLCSA152J	1.5 mH	(1)
L4		SLCSA680K	0.068 mH	(1)
L5		SLCSA271K	0.27 mH	(1)
CAPACITORS				
C1		ECEA50Y33K	33 μF, 50 V	(1)
C2, 3		ECEA50Y12K	1.2 μF, 50 V	(2)
C4		ECEA50Y3R3K	3.3 μF, 50 V	(1)
RESISTORS				
R1		ERF5ZXK3R3	3.3Ω 5 W	(1)
R2		ERD50FJ272	2.7kΩ, 1/2 W	(1)
DIODES				
D1		LN21CPHL	LED	(1)
D2		MA162A	Diode	(1)

Ref. No.		Part No.	Part Name & Description	
BREAKER				
B1		SSBS16AB02-1	Thermal Relay 1.6 A	(1)
ATTENUATOR				
ATT1, 2		SRES2		(2)
CABINET PARTS				
1		SYES35-1	Panel, Tweeter	(1)
2		SGES47-1	Equalizer, Tweeter	(1)
3		SHRS9075	Spacer, Tweeter	(1)
4		SUVS8	Cover, Midrange	(1)
5		SHRS9071	Bushing, Midrange	(1)
6		SGES138	Spacer, Woofer	(1)
7		SBNS5-1	Knob, Attenuator	(1)
8		SYBS122	Grill	(1)
9		SKABX500KE	Cabinet	(1)
10		SJFS4210	Terminal Ass'y	(1)
11		SGTS193	Plate	(1)
12		SGKS161	Name Plate	(1)
13		SYES40	Plate Attenuator	(1)
SCREWS & WASHERS				
N1		SNES9006FJ	Screw, Tweeter, Midrange	(7)
N2		SNES9003FZ	Screw, Woofer	(4)
N3		XMS31+D16FZ	Screw, Terminal	(8)
N4		XNGS9C	Nut, Attenuator	(2)
N5	S	XWV9	Washer, Attenuator	(2)
N6	S	XWG9E15FZ	Washer, Attenuator	(2)

■ PACKINGS





Ref. No.		Part No.	Part Name & Description	
ACCESSORY				
A1		SQF259	Instruction Book	(1)
A2		SWXS189-2	Speaker Cord	(1)
PACKING PARTS				
P1 [E]		SPGS198-2	Carton Box	(1)
P1 [EK]		SPGS198-3	Carton Box	(1)
P1 [EF]		SPGS198-4	Carton Box	(1)
P1 [EG]		SPGS198-5	Carton Box	(1)
P1 [EB]		SPGS198-6	Carton Box	(1)
P1 [EH]		SPGS198-7	Carton Box	(1)
P1 [Ei]		SPGS198-8	Carton Box	(1)
P1 [XA]		SPGS198-10	Carton Box	(1)
P2		SPSS9021-5	Pad, Corner	(2)
P3		SPSS9021-4	Pad, Top	(2)
P4		SPSS6231	Pad, Mid.	(1)
P5		SPSS6232	Pad, Bottom	(1)
P6		SPJS3-1	Polythelen Bag	(1)
P7		SPE27	Belt	(2)
P8		SPHS6050	Mat	(1)
P9		SPSS1004-1	Pad, Corner	(2)
P10		SPSS1004	Pad, Corner	(2)

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